Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

 (Currently Amended) A method for detecting an undesirable condition within a messaging network, comprising:

receiving a message from a source;

incrementing a source counter and updating an array of timestamps with a new entry corresponding to a time at which the message from the source was received, the array of timestamps including a timestamp entry for each respective source counter increment, and further including more than two timestamps for a given source;

iterating through the array of timestamps to access all source counters and associated timestamps;

removing entries in the array of timestamps that are older than a fixed window size while leaving entries in the array of timestamps that are not older than the fixed window size, and decrementing the source counter for each entry so removed;

comparing the source counter to a source threshold; and

when the source counter exceeds the source threshold, triggering an alarm indicative of an undesirable condition.

2. (Previously Presented) The method of claim 1, further comprising:

identifying a destination for the message;

incrementing a destination counter; and

comparing the destination counter to a destination threshold; and when the destination counter exceeds the destination threshold, triggering a destination alarm.

- (Original) The method of claim 2, wherein the source threshold and the destination threshold comprise different values.
- (Previously Presented) The method of claim 1, wherein the message is a short message service message.
- (Original) The method of claim 1, wherein the messaging network allows for number portability.
- (Original) The method of claim 1, wherein the messaging network comprises a wireless network.
- (Original) The method of claim 1, wherein the source comprises a network user and the destination comprises an intermediary vendor.
- 8. (Currently Amended) A method for detecting a spam event in a messaging network, comprising:

monitoring message traffic in the messaging network:

for a source address associated with a message, creating an entry in a database, setting a source address counter for that source address to a predetermined number and storing a timestamp array including a time at which the message was received, and incrementing the source counter when the source address is again detected and updating the timestamp array with a new timestamp entry corresponding to at time at which the source address was again detected, wherein the timestamp array includes more than two timestamps for a given source address:

iterating through the array of timestamps to access all source counters and associated timestamps;

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removing entries in the timestamp array that are older than a fixed window size while leaving entries in the timestamp array that are not older than the fixed window size, and decrementing the source counter for each entry so removed; and

comparing the source counter for a given source address to a source threshold; and when the source counter exceeds the source threshold, triggering an alarm indicative of a spam event.

- (Previously Presented) The method of claim 8, wherein the message traffic comprises short message service messages.
- 10. (Original) The method of claim 8, wherein the messaging network comprises a wireless network
- 11. (Previously Presented) The method of claim 8, wherein the method is performed by an intermediary logically located between two telecommunication service providers.
- 12. (Currently Amended) A method of detecting a routing loop in a telecommunications network, comprising:

monitoring message traffic passing through an intermediary interconnecting at least two telecommunication service providers:

as message traffic passes through the intermediary, setting a source address counter to a predetermined number and storing a timestamp corresponding to a time at which a first message passed through the intermediary, incrementing the source address counter and adding a new timestamp to an array of timestamps each time the first message passes through the intermediary, wherein the array of timestamps includes more than two timestamps for a given source address:

as message traffic passes through the intermediary, setting a destination address counter to a predetermined number and storing a timestamp corresponding to a time at which a second message passed through the intermediary, incrementing the destination address counter and AMENDMENT ACCOMPANYING RCE IN RESPONSE TO OFFICE ACTION OF AUGUST 21, 2009
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adding a new timestamp to another array of timestamps each time the second message passes through the intermediary;

comparing the source address counter and destination address counter for a given source address and a given destination address, respectively to a source address threshold and destination address threshold;

iterating through the arrays of timestamps to access all source and destination counters and associated timestamps and removing entries in the array of timestamps that are older than a fixed window size while leaving entries in the array of timestamps that are not older than the fixed window size; and

when the source address counter and destination address counter, respectively exceed the source address threshold and destination address threshold over the course of a predetermined amount of time, triggering an alarm indicative of a routing loop.

- 13. (Original) The method of claim 12, wherein the source address threshold and the destination address threshold comprise different values.
- 14. (Previously Presented) The method of claim 12, wherein the message traffic comprises short message service (SMS) messages.
- 15. (Original) The method of claim 12, wherein the method detects routing loops caused by number portability.
- 16. (Original) The method of claim 12, wherein the telecommunications network comprises a wireless network.